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(54) **FILL-THROUGH-THE-TOP PACKAGE AND METHOD AND APPARATUS FOR MAKING THE SAME**

2,506,311 5/1950 Moore .

(List continued on next page.)

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FOREIGN PATENT DOCUMENTS

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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0 109 793	3/1987	(EP) .
0 276 554	8/1988	(EP) .
0 302 144	2/1989	(EP) .
0 239 319	9/1990	(EP) .
0 374 539	8/1993	(EP) .
1 350 126	12/1963	(FR) .
2 613 326	10/1988	(FR) .
1 546 433	5/1979	(GB) .
2 080 412	2/1982	(GB) .
2 085 519	4/1982	(GB) A44B/19/62
2 130 173	5/1984	(GB) .
2 268 721	1/1994	(GB) .
2 268 731	1/1994	(GB) .
57 105248	12/1980	(JP) .
WO 9529604	11/1995	(WO) .
WO 9535046	12/1995	(WO) .
WO 9535047	12/1995	(WO) .
WO 9535048	12/1995	(WO) .
WO 99/24325	5/1999	(WO) B65B/61/18

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(56) **References Cited**

U.S. PATENT DOCUMENTS

Re. 27,174	9/1971	Ausnit .
Re. 33,674	8/1991	Uramoto .
Re. 34,554	3/1994	Ausnit .
Re. 34,905	4/1995	Ausnit 53/412
Re. 34,906	4/1995	Tamaki et al. 123/399
1,992,152	2/1935	Yeates .
2,064,432	12/1936	Kridel .

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(57) **ABSTRACT**

A fill-through-the-top reclosable package includes first and second opposing body panels joined to each other along a pair of sides and a bottom bridging the pair of sides. The package is provided with a reclosable fastener extending along a package top disposed opposite the bottom. The fastener includes first and second opposing tracks. The first track includes a male profile, while the second track includes a female profile adapted to releasably interlock with the male profile. To provide tamper evidence, the first and second tracks may be joined to each other along an area of weakness. When making the package, the first track is first attached to the first panel, the package is filled with a product via a fill opening between the second track and the second panel, and then the second track is attached to the second panel.

16 Claims, 8 Drawing Sheets

